minimizer in kepty to office action of February 13, 20

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- a plurality of processing modules (M, S) and including a first module and a second module;

an interconnect means (N) device for coupling said plurality of processing modules (M, S) and for enabling a device-level communication based on transactions between said plurality of processing modules (M, S), wherein at least one the first processing module (M) issues at least one transaction towards at least one for reception by the second processing module (S) comprising through the interconnect device;

at least one transaction abortion unit (TAU)—connected at least one of between the first module and the interconnect device

and between the second module and the interconnect device for aborting at least one transaction issued from said first module by in response to receiving an abort request (abt)—issued by said first module—(M), by initiating a discard of said at least one transaction to be aborted, and by issuing a response (abt_ack) indicating the a success/failure of the requested transaction abortion abort request; and

at least one network interface associated to one of said plurality of processing modules for controlling the communication between said one of said plurality of processing modules and said interconnect,

wherein said at least one transaction abortion unit is arranged in one of said network interfaces;

wherein said at least one network interface further comprise a request buffer for buffering received data; and

wherein said transaction abortion unit is adapted to issue a discard for said at least one transaction to be aborted as stored in said request buffer.

Claim 2 (Canceled)

said at least one transaction abortion unit (TAU)—is adapted to perform said at least one transaction abortion atomically or partially.

Claim 4 (Canceled)

5.(Currently Amended) Integrated circuit according to claim
2, wherein An integrated circuit comprising:

a plurality of processing modules including a first module and a second module;

an interconnect device for coupling said plurality of

processing modules and for enabling a device-level communication

based on transactions between said plurality of processing modules,

wherein the first processing module issues at least one transaction

for reception by the second processing module through the

interconnect device;

at least one transaction abortion unit connected at least one

of between the first module and the interconnect device and between
the second module and the interconnect device for aborting at least
one transaction issued from said first module in response to
receiving an abort request issued by said first module, by
initiating a discard of said at least one transaction to be
aborted, and by issuing a response indicating a success/failure of
the abort request; and

at least one network interface associated to one of said plurality of processing modules for controlling the communication between said one of said plurality of processing modules and said interconnect,

wherein said at least one transaction abortion unit is arranged in one of said network interfaces;

wherein said at least one network interface (NI) further
comprise a response buffer (RESP) for buffering outgoing data,
data; and

wherein said transaction abortion unit (TAU)—is adapted to issue a discard for said at least one transaction to be aborted as stored in said response buffer—(RESP).

6.(Currently Amended) Integrated circuit according to claim
1, wherein An integrated circuit comprising:

a plurality of processing modules including a first module and a second module;

an interconnect device for coupling said plurality of
processing modules and for enabling a device-level communication
based on transactions between said plurality of processing modules,
wherein the first processing module issues at least one transaction
for reception by the second processing module through the
interconnect device; and

at least one transaction abortion unit connected at least one of between the first module and the interconnect device and between the second module and the interconnect device for aborting at least one transaction issued from said first module in response to receiving an abort request issued by said first module, by initiating a discard of said at least one transaction to be aborted, and by issuing a response indicating a success/failure of the abort request;

wherein said request for said at least one transaction abortion specifies which transactions are to be aborted, and

wherein_said response (abt_ack) issued by said transaction abortion unit (TAU) specifies which of the requested at least one transaction have been aborted.

7.(Currently Amended) Method_A method for transaction abortion in an integrated circuit having a plurality of processing modules (M, S) and an interconnect means (N) device for coupling said plurality of processing modules (M, S) and for enabling a device-level communication based on transactions between said plurality of processing modules—(M, S), wherein at least one a first processing module (M)—issues at least one transaction towards at least one a second processing module (S), the method comprising the step_acts of:

buffering received data in a request buffer of a network interface configured to control the communication between said first processing module and said interconnect device;

aborting at least one transaction issued from said first module by receiving an abort request (abt) issued by said first module—(M), by initiating a discard of said at least one transaction to be aborted, and by issuing a response (abt ack)

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indicating the success/failure of the requested transaction abortion; and

issuing a discard for said at least one transaction to be aborted as stored in said request buffer.

- 8.(Currently Amended) <u>Data_A data_processing</u> system, comprising:
- a plurality of processing modules (M, S) and including a first module and a second module;

an interconnect means (N) device for coupling said plurality of processing modules (M, S) and for enabling a device-level communication based on transactions between said plurality of processing modules (M, S), wherein at least one the first processing module (M) issues at least one transaction towards at least one for reception by the second processing module (S) comprising through the interconnect device;

at least one transaction abortion unit (TAU) connected at

least one of between the first module and the interconnect device
and between the second module and the interconnect device for

aborting at least one transaction issued from said first module by

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in response to receiving an abort request (abt) issued by said first module—(M), by initiating a discard of said at least one transaction to be aborted, and by issuing a response (abt ack) indicating the a success/failure of the requested transaction abortion abort request; and

at least one network interface associated to one of said plurality of processing modules for controlling the communication between said one of said plurality of processing modules and said interconnect,

wherein said at least one transaction abortion unit is arranged in one of said network interfaces;

wherein said at least one network interface further comprise a request buffer for buffering received data; and

wherein said transaction abortion unit is adapted to issue a discard for said at least one transaction to be aborted as stored in said request buffer.

9.(New) A method for transaction abortion in an integrated circuit having a plurality of processing modules and an interconnect device for coupling said plurality of processing

modules and for enabling a communication based on transactions between said plurality of processing modules, wherein a first processing module issues at least one transaction towards a second processing module, the method comprising the acts of:

buffering outgoing data in a response buffer of a network interface configured to control the communication between said first processing module and said interconnect device;

aborting at least one transaction issued from said first module by receiving an abort request issued by said first module, by initiating a discard of said at least one transaction to be aborted, and by issuing a response indicating the success/failure of the requested transaction abortion; and

issuing a discard for said at least one transaction to be aborted as stored in said response buffer.

10.(New) A method for transaction abortion in an integrated circuit having a plurality of processing modules and an interconnect device for coupling said plurality of processing modules and for enabling a communication based on transactions between said plurality of processing modules, wherein a first

processing module issues at least one transaction towards a second processing module, the method comprising the acts of:

issuing by said first module an abort request that specifies which transactions are to be aborted; and

aborting at least one transaction issued from said first module in response to receiving the abort request, by initiating a discard of said at least one transaction to be aborted, and by issuing a response indicating the success/failure of the requested transaction abortion; wherein the response indicating the success/failure indicates which of the transactions have been aborted.